

SKYRC T100

SKYRC T100 Dual Balance Charger Instruction Manual

Model: T100

1. INTRODUCTION

The SKYRC T100 is a twin-channel balance charger designed for various battery chemistries. It features two independent charging circuits, allowing simultaneous charging of different battery types and configurations. This charger is suitable for LiPo, LiFe, Lilon, LiHV, NiMH, NiCd, and Pb batteries, offering a maximum charging power of 100W (50W per channel) and a charging current of up to 5A. Its compact design includes convenient front-loading balance and XT60 ports, enhancing ease of use and safety.

2. SAFETY INSTRUCTIONS

Read all instructions and warnings carefully before use. Failure to do so may result in property damage, personal injury, or death.

- Never leave the charger unattended during operation.
- Ensure the charger is connected to an AC 100-240V power source only.
- Do not attempt to charge damaged or swollen batteries.
- Always use the correct battery type and cell count settings for your battery. Incorrect settings can cause fire or explosion.
- Charge batteries in a fire-safe area, away from flammable materials.
- Keep the charger away from moisture, heat, and direct sunlight.
- Do not short-circuit the charging outputs.
- Keep out of reach of children.
- Disconnect the power supply when not in use.

3. PRODUCT FEATURES

- **Dual-Channel Charging:** Two independent circuits for simultaneous charging of different battery types and configurations.

- **Multi-Chemistry Support:** Compatible with LiPo, LiFe, Lilon, LiHV (2-4 cells), NiMH, NiCd (6-8 cells), and Pb (6/12V) batteries.
- **Integrated XT60 Connectors:** Embedded XT60 ports for convenient and secure connection, preventing reverse polarity.
- **High Voltage Accuracy:** Displays battery voltage with three decimal places for precise monitoring during charging and measurement.
- **AGM & Cold Charge Modes:** Supports charging of Absorbent Glass Mat (AGM) batteries and allows charging of Pb batteries at low temperatures.
- **Compact Design:** Space-saving form factor with front-loading ports.
- **Safety Timer:** Adjustable safety timer (1-720 minutes & OFF) to prevent overcharging.



Image 3.1: Front view of the SKYRC T100 Dual Balance Charger, showing the LCD display, control buttons, and dual charging ports with XT60 connectors.

Multi-purpose for Most Chemistries With Compact Size

SkyRC T100 is a twin-channel charger with two independent circuits which can charge batteries of varying chemistries (LiPo / LiFe / Lilon / LiHV / NiMH / NiCd / Pb) simultaneously. Its sleek design allows easy front-loading plug-in convenience of balancing and XT60 ports. It is not only compact in size but also powerful in output with maximum 100W charging power and 5A charging current which makes charging more sufficient. With the new AGM and cold charge modes, the user is free to charge their PB and AGM batteries in cold days.



Image 3.2: Illustration highlighting the multi-purpose charging capabilities and compact size of the SKYRC T100 charger, indicating 5A and 50W per channel.

Twin-channel Charger

SkyRC T100 allows you to plug 2 batteries into one charger simultaneously, and it will intelligently and automatically initiate the charging of 2 batteries at once to their maximum capacity. To top it all, the batteries being charged do not even need to have the same configuration. You can connect different chemistry (NiMH / NiCd / LiPo / LiFe / Lilon / LiHV / Pb) batteries into any of the charging ports.



Image 3.3: The SKYRC T100 charger with two batteries connected, demonstrating its twin-channel charging feature. The display shows charging status for both channels A and B.

Higher Accuracy with Three Decimals for Battery Voltage

The charger firmware is highly optimized by displaying the battery voltage with three decimals during the process of charging & battery voltage measuring.

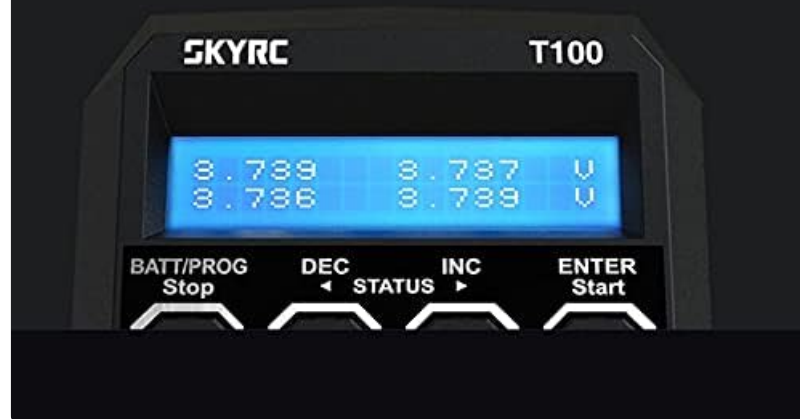


Image 3.4: Close-up of the SKYRC T100's LCD display, showing battery voltage with three decimal places, indicating high measurement accuracy.

AGM & Cold Charge Modes for PB Battery

SkyRC T100 can charge AGM(Absorbent Glass Mat))battery and also can be used for charging PB battery at very low temperatures.



Image 3.5: The SKYRC T100 charger depicted in a cold, snowy environment, illustrating its capability to charge PB batteries using AGM and Cold Charge modes at low temperatures.



Image 3.6: Close-up view of the embedded XT60 battery connectors on the SKYRC T100 charger, designed for secure and convenient battery connection.

4. PACKAGE CONTENTS

- 1x SKYRC T100 Dual Balance Charger
- 1x AC Power Cord
- Instruction Manual (this document)

5. SETUP

1. **Unpack:** Carefully remove the charger and all accessories from the packaging.
2. **Power Connection:** Connect the supplied AC power cord to the charger's AC input port and then plug it into a suitable AC 100-240V wall outlet. The charger will power on, and the LCD display will illuminate.
3. **Battery Connection:** For each battery you wish to charge, connect its main power lead to the XT60 port (A or B) and its balance lead (if applicable) to the corresponding balance port (2-4S) on the charger. Ensure correct polarity.

6. OPERATING INSTRUCTIONS

The SKYRC T100 features four control buttons: **BATT/PROG Stop**, **DEC STATUS** (left arrow), **INC STATUS** (right arrow), and **ENTER Start**.

6.1 Navigating the Menu

- Use the **DEC STATUS** and **INC STATUS** buttons to scroll through menu options or adjust values.
- Press **ENTER Start** to confirm a selection or enter a submenu.
- Press **BATT/PROG Stop** to go back to the previous menu or stop an ongoing process.

6.2 Charging Procedure (General)

1. **Select Channel:** The charger will typically display information for both channels. Use the arrow buttons

to highlight the channel (A or B) you wish to configure.

2. **Select Battery Type:** Press **ENTER Start** to enter the battery type selection. Use the arrow buttons to choose the correct battery chemistry (e.g., LiPo, NiMH, Pb) and press **ENTER Start** to confirm.
3. **Set Charge Mode:** Select the desired charge mode (e.g., Balance Charge, Fast Charge, Storage, Discharge for Lithium batteries; Charge for NiMH/NiCd/Pb).
4. **Adjust Parameters:** Set the charge current (e.g., 0.1A-5.0A) and cell count/voltage (for Lithium batteries) using the arrow buttons. Ensure these settings match your battery's specifications.
5. **Start Charging:** Once all parameters are set, press and hold the **ENTER Start** button for a few seconds to initiate the charging process. The charger will perform a pre-charge check.
6. **Monitor Progress:** The LCD will display real-time charging information, including current, voltage, and charged capacity.
7. **Stop Charging:** To stop charging at any time, press the **BATT/PROG Stop** button. The charger will automatically stop when the battery is fully charged.

6.3 Specific Charging Modes

- **Balance Charge (LiPo/LiFe/Lilon/LiHV):** Recommended for Lithium batteries to ensure all cells are charged to the same voltage, extending battery life. Requires balance lead connection.
- **Charge (NiMH/NiCd/Pb):** Standard charging mode for these battery types.
- **AGM Mode (Pb Battery):** Select this mode for Absorbent Glass Mat (AGM) lead-acid batteries.
- **Cold Charge Mode (Pb Battery):** Use this mode when charging Pb batteries in low-temperature environments.

7. MAINTENANCE

- **Cleaning:** Regularly clean the charger's exterior with a soft, dry cloth. Do not use solvents or abrasive cleaners.
- **Ventilation:** Ensure the charger's ventilation openings are clear of dust and debris to prevent overheating.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight and moisture when not in use.
- **Cable Inspection:** Periodically inspect all cables and connectors for signs of wear or damage. Replace damaged components immediately.

8. TROUBLESHOOTING

- **Charger does not power on:**
 - Check if the AC power cord is securely connected to both the charger and the wall outlet.
 - Verify the wall outlet has power.
- **Charging does not start:**
 - Ensure the battery is correctly connected to the charger (main and balance leads, if applicable).
 - Verify that the battery type and cell count settings match the connected battery.
 - Check for any error messages on the LCD display and refer to the manual for their meaning.
 - Ensure you have pressed and held the **ENTER Start** button to initiate charging.
- **Error message displayed:**
 - Common errors include 'Connection Break', 'Cell Error', 'Voltage Error'. Consult the full manual for

specific error code interpretations and solutions.

- Disconnect and reconnect the battery, then restart the charging process.

- **Battery not fully charged:**

- Check the set charge current; a lower current will take longer.
- Ensure the safety timer is not set too short.
- Verify the battery's health; a degraded battery may not reach full capacity.

9. SPECIFICATIONS



Image 9.1: Diagram showing the dimensions of the SKYRC T100 charger: 90mm width, 100mm depth, and 127mm height.

Specification	Value
Case Material	Plastic
Case Size	90x100x127mm
Weight	500g
Display Type	2x16 LCD (Blue Backlight)
Input Voltage	AC 100-240V
Charge Wattage	50W x 2 (Total 100W)
Charge Current Range	0.1A - 5.0A
Balance Current	300mA/cell
Battery Types/Cells (LiPo/Lilon/LiFe/LiHV)	2-4 cells
Battery Types/Cells (NiMH/NiCd)	6-8 cells
Battery Types/Cells (Pb)	6V / 12V
Charge Voltage (LiPo)	4.18-4.25V/cell
Charge Voltage (LiFe)	3.58-3.7V/cell
Charge Voltage (Lilon)	4.08-4.2V/cell



Specification	Value
Charge Voltage (LiHV)	4.25-4.35V/cell
Discharge Cut-off Voltage (LiPo)	3.0-3.3V/cell
Discharge Cut-off Voltage (LiFe)	2.6-2.9V/cell
Discharge Cut-off Voltage (Lilon)	2.9-3.2V/cell
Discharge Cut-off Voltage (LiHV)	3.1-3.4V/cell
Safety Timer	1-720 minutes & OFF
Charge Method	CC/CV for Lithium batteries; CC/CV and float charge for PB batteries.





10. WARRANTY AND SUPPORT

SKYRC products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the official SKYRC website or contact your local distributor. Keep your purchase receipt as proof of purchase.

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Related Documents - T100

<div><p>T100 AC Dual Balance Ladegerät Bedienungsanleitung</p><p>SKYRC</p></div>	<p>SkyRC T100 AC Dual Balance Ladegerät Bedienungsanleitung</p> <p>Umfassende Bedienungsanleitung für das SkyRC T100 AC Dual Balance Ladegerät, die Funktionen, Sicherheitshinweise, Bedienungsschritte und technische Spezifikationen detailliert beschreibt.</p>
<div><p>T100 AC Dual Balance Charger Instruction Manual</p><p>SKYRC</p></div>	<p>SkyRC T100 AC Dual Balance Charger Instruction Manual</p> <p>Comprehensive instruction manual for the SkyRC T100 AC Dual Balance Charger, covering setup, operation for various battery types (LiPo, LiFe, Lilon, LiHV, NiMH, NiCd, Pb), safety precautions, specifications, and warranty information.</p>

<p>T100 AC Dual Balance Charger Instruction Manual Version 1.0</p>  <p>SKYRC</p>	<p>SkyRC T100 AC Dual Balance Charger Instruction Manual</p> <p>Detailed instruction manual for the SkyRC T100 AC Dual Balance Charger. Learn about its features, safe operation, battery compatibility (LiPo, LiFe, Lilon, LiHV, NiMH, NiCd, Pb), system settings, and troubleshooting.</p>
<p>T100 AC Dual Balance Ladegerät Bedienungsanleitung Version 1.0</p>  <p>SKYRC</p>	<p>SkyRC T100 AC Dual Balance Ladegerät Bedienungsanleitung</p> <p>Die Bedienungsanleitung für das SkyRC T100 AC Dual Balance Ladegerät. Enthält Informationen zu Funktionen, Sicherheitshinweisen, Bedienung verschiedener Akkutypen und technische Daten.</p>
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